

Abstract:

The invention relates to a device for monitoring the position and movement of a brake pedal, comprising a master cylinder 1; 102 with an integrated position generator for monitoring the position of a piston 2; 105 within a housing 6; 103 for use in a controlled brake system for motor vehicles, in particular with driving dynamics control, and the position generator includes a magnet 35; 150 as a signal transmitter which transmits a magnetic field in the direction of a sensor element 36; 151 being stationary on the housing 6; 103, and is connectable to an electronic control unit.

To monitor a push rod piston even during a driving dynamics control operation, it is disclosed that the magnet 35; 150 is arranged between two pistons 2, 3; 105, 106 and is displaceable in relation to at least one of the pistons 2, 3; 105, 106.

This renders possible a relative displaceability of the magnet 35; 150 in relation to a stationary piston 3; 106 and a proportional displaceability of the magnet 35; 150 in relation to an actuated piston 2; 105 when the piston 3; 106 cannot be displaced in relation to the housing 6; 103 as a result of closed separating valves in a braking operation during a driving dynamics control operation.

(Figure 1)